WORK ZONE TRAFFIC CONTROL DESIGN CHECKLIST

REMEMBER, a comprehensive traffic control PS&E is actually a project within a project. WSDOT is obligated to provide a safe and workable proposal for controlling traffic, which is consistent with the project construction requirements. Even though there may be more than one workable solution, a thorough analysis of all the variables will help to produce a traffic control PS&E that sets the appropriate level of safety.

PROJECT DEFINITION & PLANNING

	Work Zone Traffic Control Strategy Statement for Design Documents: [] Informal in house conference with PEO & WZTC specialist [] WZTC options and strategies [] formal conference with local agencies & WSDOT [] Final WZTC strategy statement for project definition documentation
0	Work Zone Capacity Analysis [] Existing level of service [] Existing lane capacity-VPHPL [] Work hour restrictions-days & hours [] Detour route capacity analysis [] Select appropriate work zone type(s) (1) long-term stationary (4) short duration (2) intermediate stationary (5) mobile (3) short-term stationary
	Existing Operational Factors [] Coordinate with Region traffic operations [] Localized traffic operational problems [] Accidents (include previous WZTC, maintenance or contract) [] Geometric conflicts or issues [] High speed/low speed [] Coordinate with local maintenance supervisor [] commercial/private access impacts [] adjacent project coordination [] special events [] ferry schedules [] seasonal factors [] on street parking [] emergency services [] other regulatory conditions [] transit, schools, parks, etc.
	Work Zone Location Considerations [] Define all work zone limits/locations [] existing lane conflicts [] roadside objects & conflicts [] overhead & overwidth clearance conflicts [] vertical/grade/profile conflicts [] staged work zones [] work zone base plan - CADD files & aerial photo

[] Worker Safety [] Positive separation - barriers [] Worker exposure during: (1) set up (2) removal (3) work operations [] Flagger protection (no freeway use) [] Truck Mounted Attenuator [] Portable barriers – temp. concrete, median in the concrete in t				
TYPES OF WORK ZONE TRAFFIC CONTROL				
[] Long Term <u>STRATEGY</u>	PLAN TYPE			
 [] total road closure [] partial road closure [] interchange closure [] ramp closure [] crossroad closure [] lane shift [] lane closure [] shoulder closure [] reversible lanes [] temp./portable traffic signal control [] temp. yield/stop control [] temp. widening/connections [] temp. structures [] staged traffic control [] island work zone(center lane closure) 	DETOUR CROSS-OVER DETOUR DETOUR DETOUR TEMP CHANN TEMP CHANN TEMP CHANN TCP TCP TCP TCP TCP TEMP CHANN TEMP CHANN TEMP CHANN TEMP CHANN TEMP CHANN TEMP CHANN STAGING PLANS TEMP CHANN			
[] Short Term STRATEGY	PLAN TYPE			
[] off-peak roadway closures: total & partial road closure interchange & ramps crossroad, intersection [] off-peak lane closures [] shoulder closure [] flagger control [] pilot car control [] traffic stop	DETOUR DETOUR DETOUR DETOUR TCP TCP TCP TCP TCP TCP			
(MUTCD part VI has guidelines for work zone type and duration)				

[] Construction Considerations for WZTon [] Removal of permanent traffic considerations [] Maintaining existing features: illustified [] Work area access control-safe in [] Adequate work zone space for considerate work and [] time frame to complete work and [] time saving work methods [] time saving materials [] temporary illumination or signals [] winter shut down, intermediate WZTon [] cure time, closure pours [] temporary drainage [] construction / traffic compatibility [] staged WZTC switch over time to not existing shoulder durability for temporary	ntrol features Imination, signing, etc. gress & egress Ontractor I re-open to traffic C stage?
Refer to the MUTCD, Traffic Manual, Desig and Construction Manual for further guidance	
[] Special Devices [] portable/temp. traffic signal [] intrusion alarms [] truck mounted attenuator [] buffer/shadow vehicles [] high level warning flags [] glare / work zone screen [] pedestrian fence [] flashing stop/slow paddle [] portable HAR's [] Special Signs [] port. changeable message sign [] advance date notice of closure signs [] speed advisory signs [] regulatory speed zone signs	Special Lighting [] Flagger station illumination [] sign illumination [] detour illumination [] temporary illumination [] high mast lighting [] warning lights Innovative Products [] illuminated flagging paddle [] water filled barrier [] rumble strips Work Zone / Traffic Protection [] Roadside hazard protection [] Roadside hazard protection [] Buffer space, lateral and longitudinal [] temporary impact attenuators
[] Special Considerations [] WSP assistance [] Night work [] Oversize loads [] Peds and bikes [] WZTC supervisor [] WZTC patroller [] roadway flares [] reduced sight distance [] safe speed for temp. alignment (ball bank) [] liquidated damages [] innovative contract techniques [] haul routes [] blasting operations [] emergency traffic control [] emergency parking	[] barrier/guardrail connections [] movable concrete barrier [] water filled barrier [] temporary concrete barrier [] barricades [] recovery area [] shy distance [] temporary RPM's [] temporary pavement marking [] traffic safety drums [] type "c" steady burn lights [] reduced device spacing [] temporary guidepost

DESIGN CONSIDERATIONS

	preliminary field review design with existing driver expectation in mind design for existing speed, posted or higher start design from work zone perspective design based on the most desirable, yet practical traffic configuration design from drivers point of view layout temporary channelization build in recovery area and buffer space provide adequate detail (station callouts for temporary features) for field layout temporary channelization must provide positive driver guidance clear separation between work zone and traffic, use positive barriers? use permanent design standards whenever possible build in work area ingress and egress access design above minimums when possible establish highly visible sign locations (verify where possible, SRView, etc.) don't depend on signs to guide traffic mentally drive through the TCP from all approaches and all lanes will TCP actually fit site conditions? (scaled plan?) final field review risk assessment, comfortable with level of safety, liability issues? final approval with traffic engineer and construction P.E.		
<u>Pr</u>	PROJECTED IMPACTS		
[]	Worker / traffic exposure Local agency impact Coordination with region PIO for public awareness & media notification traffic delay - time user costs - \$ backups - queue length traffic control cost constructibility issues commercial impacts overlapping project coordination / WZTC conflicts with existing permanent traffic control features, signs, markings, etc. reversed/revised intersection control		
FINAL APPROVAL			
[] [] [] [] [] []	Regional Traffic Engineer or Regional Traffic Control Specialist Regional Management Approval Construction P.E. Concurrence Consistent with FHWA (MUTCD) & WSDOT policies Detour Agreement Approval WSP Agreement Approval Local Agency Approvals Noise Ordinance Blasting Ordinance		
Re	Required checklist items BOLD		

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